

MEMOIRS

LITERATURE.

MONDAY, May 26. 1712.

I.

A FURTHER * ACCOUNT of
Dr. BERNARD's Discourse,
shewing the Usefulness of PHILOSO-
PHY, and how necessary it is in order
to learn other Sciences.

III. **I**T were an endless Thing (says Dr. Bernard) to mention all the Advantages arising from Natural Philosophy. Those are very much mistaken, who maintain that it is of no Use but to Physicians. Are Physicians the only Men, who ought to consider the Works of the Supreme Being? Is it not the Duty of all Christians to know the Invisible God from the Visible Things of this World? The Author cannot sufficiently wonder at the Folly of those Men, who being wholly intent upon a curious Piece of Workmanship, or travelling into remote Countries to see the Ruins of some Ancient Monuments, seem to believe that the admirable Works of God do not deserve their Attention. Is it not a surprising Thing, says he, that so many Persons, distinguish'd by their Birth, and upon several other Ac-

counts, should be as much unacquainted with the Works of Nature, as the meanest Sort of People? They know not why the Sun rises and sets; why Days and Nights increase and decrease; why the Four Seasons of the Year do constantly succeed one another, &c.

Among the many Advantages, says the Author, that accrue to Men from the Study of Philosophy, this is doubtless one of the most considerable, that it frees them from a Thousand popular Errors and panick Fears. A Philosopher is not afraid of an Eclipse of the Sun or the Moon: The Sight of a Comet does not terrify him: The Influences of the Stars do not disturb his Mind; and he gives no Credit to the vain Predictions of Astrologers.

*Hunc Solem, & Stellas, & decedentia certis
Tempora momentis, sunt qui formidine nulla
Imbuti spectant.*†

A Philosopher (continues the Author) does not dread *Lycantropes*, Phantoms, and Apparitions. The Study of Nature cures Men of Superstition and Credulity, and enables them to overcome the Prejudices of Infancy and Education.

I add, that Philosophy is so useful to Mankind, as to preserve the Lives of many

* The First Extract may be seen in the last Sheet.

† Horat. Epist. Lib. I. Ep. VI. v. 7. & seq.

innocent Persons. If Judge *Boguet* had been a good Philosopher, he would not have committed to the Flames * so many poor Wretches falsely accused of Sorcery and Witchcraft. Philosophy (if it be attended with Honesty) is also an Excellent Antidote against Persecution on Account of Religion.

Dr. *Bernard* proceeds to shew, that Natural Philosophy is of great Use for the Improvement of Agriculture, and the Preservation of Health. Afterwards he takes notice of several useful Inventions, for which we are beholden to Philosophy, such as Telescopes, Microscopes, &c. Philosophy (says he) confirms what the Scripture tells us concerning the prodigious Number of Stars; whereas the Ancients knew only a Thousand and Twenty Two. The Discovery of several New Planets is of so great a Moment, that if ever Geography (that useful, but very imperfect Science) attains to any Degree of Perfection, it must be ascribed to those New Planets. How great is the Usefulness of Microscopes! They discover to us daily a Thousand new Objects, whereby it appears that our Earth, (tho like a Point, if compared with the whole Universe,) contains an infinite Number of other Worlds, each of which is a new Proof of the great Power and Wisdom of the Creator of all Things.

IV. The Author proceeds to *Mathematicks*. He observes, among other Things, that the Province of *Holland* owes its Preservation to this Part of Philosophy. "*Quid propriè est Hollandia tota? (says he) Terra aquis crepta, quam tuetur Mechanica, immensorum Aggerum ope, qui sunt Artis miraculum, quique mare assuans sustinent & repellunt. Ejusdem Mechanicæ opus solum nostrum byberno tempore aquis obrutum, vere redeunte feliciter emergit*". Dr. *Bernard* takes notice of the Usefulness of Navigation, and of some other Parts of *Mathematicks*; and then bestows an *Encomium* upon a late Mathematician † of *Leyden*. Afterwards he mentions a Sphere, lodged in the College of *Leyden*, which represents the Motion of the Planets, &c. according to the System of *Copernicus*.

* See Pag. 100. and 146. of this Volume.
† Mr. *Volder*.

V. Our Author is very short upon *Ethicks*, because (says he) their Usefulness is acknowledged by every body, and will be denied by none, but those who believe that Virtue and Vice are indifferent Things; which is much the same thing with *Atheism*.

IN the Second Part of this Discourse, Dr. *Bernard* undertakes to shew, that Philosophy is of great use to learn other Sciences. He observes, in the first place, that Theology, Jurisprudence, and Physick, contain a great many Terms of Art, which cannot be understood without the Knowledge of Logick and Metaphysics. He adds, that Philosophy affords many useful Precepts, whereby the Mind is enlightned, and its Capacity enlarged.

After these general Observations, the Author comes to Particulars. He maintains, that Natural Philosophy is of great Use in Divinity. There are many things (says he) in the Holy Scripture, that cannot be understood or explained without it. He instances upon the History of the Creation, the Deluge, the Miracles wrought by *Moses* and the Prophets, and by Christ and his Apostles. Hence it is that some Divines *, unacquainted with Physics, have committed very great Blunders. There are also several Passages in the Book of *Job*, and in the *psalm*, that require some Knowledge of Natural Philosophy. The Author adds, that a Divine, well skill'd in that Science, will be better able to answer all the Objections of Hereticks and Atheistical Men.

I cannot forbear observing, that Philosophy makes a great Figure in Mr. *Leibnitz's Essay* † upon the Goodness of God, &c. That Science does not appear there like a mere Servant-Maid to Theology, but rather like a Noble Lady, who lends her a helping Hand, and supports her upon all Occasions.

Dr. *Bernard* observes by the by, that Natural Philosophy will furnish a Preacher with a great many Metaphors, Similes, and

* The Author names *Serarius*, and quotes for his Blunders Mr. *Marck's Dissertations* upon several Texts of the Scripture.

† I have given a large Account of that Book in the 1st Volume of these Memoirs.

Comparisons, very proper to illustrate his Subject: Which brings into my Thoughts a Passage of Father Mersenne. That Learned Monk tells us, in one * of his Mathematical Books, that if any Preacher desires to give a new Turn to an Exordium, and to adorn his Sermons with uncommon and beautiful Figures, Comparisons, and Parallels, he will find many things in that Volume, and in the foregoing, which they may apply to a Moral Subject: And then he adds, Quid enim, verbi causa, facilius quam ex XXIX. *Lucis* The orematibus, aut XXX. *Umbra* sequentibus, quæ leguntur Optices Libro primo, multa cum ad fidem cum ad virtutes commendandas elicere? (See what follows in that Author) Such an Advice must needs appear very extraordinary to those Preachers, who look upon Mathematicks as a dry and barren Study. If they will believe Father Mersenne, the Doctrine of Lights and Shadows, treated in a Geometrical way, will afford them many bright Thoughts, and a Thousand Flourishes.

Our Author observes, that Mathematicks are also of great Use to understand the Geography and Chronology of the Bible. He adds, that the Weights and Measures mentioned in the Sacred Writings, and the Dimensions of the Tabernacle, and of the Temple of Solomon and Ezekiel, can hardly be understood without the Help of Geometry. Some Excellent Geometricians (says Dr. Bernard) have done a great Service to Religion, by demonstrating that Noah's Ark could easily contain all Sorts of Animals.

The Revelation supposes the Law of Nature; and therefore Moral Philosophy must needs be very useful to those, who apply themselves to Divinity. Ethicks are also highly necessary to a Civilian, because the Civil Law is generally grounded upon the Law of Nature.

Jurisprudence may also reap no small Advantage from Natural Philosophy and Mathematicks; because it affords many Questions, that cannot easily be resolved without them.

There is so great an Affinity between Natural Philosophy, and the Medical Art, that among some Nations those who profess that

Art, are call'd Physicians. What Dr. Bernard says, in order to shew that a Physician ought to be well skill'd in natural Philosophy, is very judicious: But I shall not dwell upon it, because I have lately discoursed upon that Subject, when I gave an Account of Dr. Guyben's Essay upon Empiricism.

Lastly, The Author observes, that Moral Philosophy is also of great Use in Physick. For (says he) all Learned Physicians know, that the different Passions of the Soul occasion many Alterations in the Body; and therefore whoever is able to moderate and cure those Passions, ought to be look'd upon as a Man, who has made a great Progress in the Art of preserving Health and curing Diseases. But 'tis properly the Knowledge of Ethicks, that will qualify a Physician for this Part of the medical Art.

II.

A FURTHER ACCOUNT of Captain COOKE's Voyage to the South-Sea, and round the World.

I Left Captain Cooke at the Isle of Gorgona in the first Extract * of this Book; and now I proceed to give a further Account of his Voyage.

He departed from that Island the 7th of August, 1709, and the 24th of the same Month came to an Anchor in the Bay of Tacames, a Village consisting only of Seven Houses and a Church. They traded with the Inhabitants; and having left that Bay the 31st of August, they arrived on the 10th of September, at one of the Galapagos-Islands. From whence they came to the Islands Tres Marias on the 6th of October. The Author gives us a curious Description of Sea and Land Tortoises, and of several Sorts of Fish.

October 25th they sailed from the Islands Tres Marias for Cape St. Lucas and Puerto Seguro in California. Puerto Seguro is inhabited by about two hundred Indians, who live in Huts made of Boughs of Trees and Reeds. They all go naked. Only the Women wear short

* In the Preface to his *Universæ Geometrie mixtaeque Mathematicæ Synopsis*. N. XIII. Paris, 1644. in 4to.

* Above, Pag. 113.

Petticoats made of Silk-Grafs, or of Pelicans and Deers-Skins, reaching from their Waste half way down their Thighs. Those Indians are very honest, and would not take the least Thing without leave. Our Author is of Opinion, that they might be brought to some Knowledge in the Christian Religion; but the Spaniards say not.

The 22d of December the lesser Manila Ship was taken in less than half an Hour. The great one was attempted in vain. "To give the Enemy their due, says Captain Cooke, they defended themselves very well. But we might as well have fought a Castle of Fifty Guns, as this Ship, which had about Forty, and near as many Brads Pedreros, each carrying as big a Shot as our great Guns; and, as some of the Prisoners told us, Six hundred Men, whereof a hundred and fifty were Europeans, many of them English, and Irish, some of which had been formerly Pirates. The Gunner was a Genoise born, had an Employment at Manila, and thirty of the best Men belonged to him, which made them fight desperately. The French Captain (of the lesser Manila Ship) informed us, that they had Advice from Madagascars, two Months before they left Manila, that two Bristol Privateers were coming in quest of them into those Seas, and that Captain Dampier was Pilot; which was the Reason they had so many Europeans Aboard the great Ship, most of whom having their Wealth Aboard, they would fight to the utmost. He added, That the great Ship was prodigious strong, and that they have an excellent Sort of Wood at Manila for building of Men of War. Gemelli says this Sort of Wood is hard and heavy as a Stone. The Planks are so thick, and lined both within and without, that they receive little Damage by Cannon-Balls, (we observed that the Plank of the Prize we took, did not splinter.) He farther says that a Ship, which fought Fourteen Sail of Dutch, that came to take Cavite, had nineteen Balls taken out of her Side, sticking there, as it were in a Wall of soft Stone; and this because being run aground, she was forced to fight all the while on one Side, to the great Astonishment of the Enemy. I may be bold to say this Ship we fought was as strong, and had some hundreds of Shot

in her Hull. But enough of this, since it was not our Fortune to take her.

The Proprietors of the Two Men of War, that failed into the South-Sea, need not be much concerned for the vain Attempt that was made upon the great Manila Ship, since they have got vast Riches, not only by the small Manila Ship, but also by nineteen other Ships or Barks, either taken or ransomed. An Account of the Plate, Jewels, Money, &c. that were brought Home, may be seen in the Book.

Captain Cooke, being willing to impart to the Publick all the Observations to be found in the Spanish Coasting Pilots, gives us an Account of the Distances between all the Ports, Bays, Creeks, &c. from Panama along the Coast of New Spain, to the Port of the Nativity, seventy Leagues beyond Acapulco. He also mentions the Shoals, Winds, Currents, &c. These Observations will be of great Use to those, who shall sail into the South-Sea hereafter.

In the next Place, our Author describes New Spain from Panama to almost forty Degrees of Northern Latitude; its several Provinces and Towns; the Silver and Gold Mines; and the Commodities and Product of each Part. What Captain Cooke says of the Town of Acapulco, and its great Trade, will not be unacceptable to the Readers. He tells us, among other Things, that tho it is call'd a City, it hardly deserves the Name of a Village, and that the Houses are only made of Mud-Walls and thatch'd. But the Harbour is very safe, winding about, and being enclosed with Mountains. The Trade of this Place is so considerable, that the Curate gets fourteen Thousand Pieces of Eight every Year, and a Black will hardly be satisfied with a Piece of Eight a Day.

The Author gives us a compendious History of New Spain before it was conquered by the Spaniards; and then a short Account of that Conquest. Lastly, he mentions the several Expeditions along the South-Sea Coast of North-America, that were made by Sir Francis Drake, Sir Thomas Candish, George Spilbergen, Captain Morgan, Captain Sharp, Captain Dampier, and some others.

The last Chapter of this Book contains only a very general Account of the remaining Part of Captain Cooke's Voyage, who arrived in the Downs the 2d of October, 1711. three Years and two Months after his Depart-

parture from Bristol. He designs to publish a Second Volume, containing all the Particulars of his Voyage from California thro' the East-Indies into England; an exact Description of many Places; several Draughts of considerable Harbours, &c. (taken from the Spanish Coasting-Pilots,) and other Cuts, which (says the Author) with several other Curiosities — will render the Work as useful, instructive, and diverting, as any Book of this Nature hitherto Extant. A Voyage round the World is a Curiosity not to be met with among the Works of the Ancients, and will always prove very acceptable to the Publick.

III.

LETTRE de Mr. RUEL Medecin de Valence a un de ses amis, expliquant la Palpitation du Coeur.

That is, A LETTER of Dr. RUEL a Physician of Valence to one of his Friends, wherein he explains the Palpitation of the Heart.

S I R,

I Remember that when we made a Consultation, about a Quarter of a Year ago, for a Man sick of a violent Palpitation of the Heart, we easily agreed about the Remedies, that are proper to be used in such a Disease; but we were of a different Opinion concerning the general Cause of it. You desire in your last Letter to know how I think that such a Disease is occasioned. I shall the more willingly give you my Thoughts about that Distemper, because I am indebted to the Illustrious M. Chirac of Montpellier for the first Notion of it.

All Physicians are now agreed that the Heart is a Muscle; and therefore 'tis generally believed that its Motion, like that of other Muscles, is occasioned by the Influence of the Spirits, which are conveyed into it through some Branches of the Nerves of the Eighth Pair, especially of the Inter-costal. But I cannot approve that Opinion,

tho it is entertained by so many Physicians, because it appears to me contrary to Reason and Experience. And indeed we daily observe that in general Convulsions, or other convulsive Motions, without excepting Epilepsy, tho all the Animal Spirits are then in a violent Agitation, yet the Heart preserves an uniform and regular Motion; which doubtless would not happen, if the Motion of that Part proceeded from the Animal Spirits: The Heart would necessarily be affected by such a Disorder in the Spirits; and one might judge of it by the Pulse. On the contrary, in a violent Fever the Heart is in an extraordinary Agitation; which cannot proceed from an irregular Motion of the Spirits, since no other Part is agitated in the same manner.

The Truth of what I say will more plainly appear by the following Experiment. If all the Nerves of a Dog, that reach to the Heart, be cut off, (which may be done under the Clavicula,) the Dog does not die immediately, but lives sometimes a Day and a half after the Operation; and the Heart, far from ceasing to move during that time, has a stronger and more frequent Motion, which proceeds from a Fever occasion'd by the Inflammation of the Lungs.

I think I may ascribe the Cause of the Motion, which I undertake to explain, not to the Animal Spirits, but to a micro-aerian Matter dispersed through the Mass of the Blood, separated by small Glands that are in the Heart, and from thence conveyed into its Fibres, where being mixed with a small Portion of the Blood poured in by the Arteria coronaria, it raises a Fermentation, which occasions a Shouting or an explosive Motion. There is nothing in the Palpitation of the Heart, but what may easily be accounted for, according to this System, tho it has puzzled hitherto the most expert Physicians.

To give a just Notion of that Palpitation, I shall define it an irregular Motion of the Heart, whereby that Part rises in its Systole, and strikes more or less against the Pericardium, with a weak Pulse. In a State of Health, by the sudden Contraction of the Fibres of the Heart, that Part grows round, and its two Ventricles, or Cavities, shrink in such a Manner, that the Blood contain'd in them is squeezed, and driven out with some Violence, viz. That of the left Cavity into the

Arteria aorta, and that of the Right into the *Arteria pulmonaris*, and not into the hollow and pulmonary Veins, because of the Resistance of their *Valvulae*. Now because the Heart, growing thicker and bigger by such a Contraction, is not able to incline downwards, by reason of the Resistance of the *Trachea Arteria*, and of the *Vertebrae* on which it lies; it inclines on that Side where it is less straiten'd; and rises forewards. If the Palpitation of the Heart was only an Augmentation of its natural Motion; having discovered the Principle of that Motion, we should consequently know the Cause of that Disease: But that Motion is quite different, because the Heart rises, and leaps, as it were, forewards against the Ribs, striking them sometimes with such a Violence, as to cause a Fracture, and to be heard at some Distance; which obliges us to have recourse to another Cause. Nor does the Palpitation of the Heart happen during its Diastole, but during its Systole; as it plainly appears by the shooting of that Part, and the beating of the Artery, which are felt at one and the same time: And because that beating never happens but when the Artery receives some Blood, and the Artery receives it only when the Heart affords it by its Systole, 'tis certain the Palpitation happens during the Contraction of the Heart.

Having thus shewed how the natural Motion of the Heart is performed, we may easily conceive, that if the Blood happens to fly back with Impetuosity into the Ventricles of that Part, when they contract themselves, such a Resilition will necessarily make it rise with greater Force against the Ribs; and consequently whatever makes the Blood fly back into the Heart, must infallibly occasion a Palpitation. The chief and the most general Cause of that Distemper is the Viscosity of the Blood; not that whereby the Principles of the Blood being drowned in the Serosity, the branchy Parts stick together, when nothing keeps them at a Distance; but a Viscosity, which closely uniting the Principles of the Blood, enables them for that Reason to ferment upon the least Agitation: For then the Blood having no free Passage into the Lungs, by Reason of its Viscosity, and dilating extraordinarily all the Vessels through which it runs, happens to be by such a Contentment in a ve-

ry great Fermentation, especially at the end of the Conduits, where it is much more straiten'd. The Blood in such a Situation not having a free Course, its Column which happens to be in the *Arteria Pulmonaris*, flies back against the Coats of the Heart with a Force proportioned to the elastick Virtue of the Body that forces it back; that is, the more the Artery is constrained, the more strongly it drives back the Blood towards the Heart. The following Experiment plainly proves the Truth of what I say. If any one ties the *Arteria Pulmonaris* of a Dog, the Palpitation will not fail to come upon him immediately; which can be ascribed to no other Cause but to the Reflux of the Blood towards the Heart, by Reason of the Obstacle it meets in its way, viz the Ligature. The *Scirrhus*, or the *Tuberculum*, that is formed sometimes at the beginning of the *Aorta*, or of the *Arteria Pulmonaris*, straitening their Cavity, occasions a Palpitation for the same Reason as the Ligature. It cannot be objected that the *Valvulae* hinder the Blood from running back into the Heart, for the Artery being full of Blood, and its Column being very much straiten'd, and pressed by the Blood which the Heart continually affords, the *Valvulae* are then up, and stick to the Coats of the Artery.

A great deal of Water has been found sometimes in the *Pericardium* of those, who die of a Palpitation; which is the Reason why Dr. Lower and others believe the Dropsy of that Membrane might be the Cause of it. But that Dropsy can only produce a weak Pulse, by preventing the free Dilatation of the Heart, which sinks in that Liquor; and that Water, far from putting the Heart into a violent Motion, must needs rather lessen its Action. 'Tis not improbable that the Heart, by a strong Contraction, squeezes out some watry Particles, that are kept in by the hard Membranes of the *Pericardium*: This may be the Reason of the Water gather'd in it; which might also proceed from the thick Blood of dropfical People.

Those, who will have the Palpitation of the Heart to be a convulsive Motion occasioned by an Irritation, that may be produced by the *Tuberculum* of the *Aorta*, and by Ulcers, and Worms contained in the *Pericardium*, have not been more successful; for then it will be impossible to account for the

the Weakness of the Pulse, which attends all Palpitations, since the Blood has a free Passage.

Others ascribe the Cause of that Disease to a *Polypus* formed in the Cavities of the Heart; but it is not likely that such a Concretion should be made in its Ventricles during a Man's Life, whilst the Blood has a free and strong Circulation, and that no such thing should happen in the Veins; and consequently that the Blood should not lose its Circular Motion: Besides such Concretions may easily be formed at the Point of Death, or soon after. But to return to my Hypothesis.

There is nothing, whereby it may be more strongly confirmed, than the various Symptoms that attend Palpitation. The Pulse is weak, because there is very little Blood conveyed from the right Ventricle into the Left; and consequently the latter carrying but a little Quantity of that Liquor into the Arteries, their Beating must needs be very small: Which is also the Reason of the great Weakness and fainting Fits, which happen in that Disease. The sick Person has much ado to breathe, because the Blood not having a free Passage into the Lungs, the Vesicles which ought to receive the Air, are pressed by the swelling of the Arteries that creep over them. A great Faintness attends that Disease, because there being but little Blood conveyed into the Brain, there are not many Spirits filtrated in it. The Weariness of those, who are sick of a Palpitation, proceeds from this Cause, *viz.* That the viscous Blood cannot ferment without being very much rarefied, and distending the Parts it goes through: Which is also the Reason of the Uneasiness that is felt all over the Body.

It seems to be a difficult thing to explain, how the Passions of the Soul, such as Joy, Sadness, Love, Anger, and Fear, can occasion a Palpitation of the Heart; but this Difficulty will easily be removed in my System. I need only suppose as a certain Truth, that there is a strict Union between the Soul, not with the Blood, the Course whereof she can neither increase nor stop, but with the Animal Spirits, which she makes use of to move the Body, conveying them into such Organs and Members as she thinks fit. The Motion, which the Soul communicates to the Animal Spirits, disposes and modifies the

Blood in a manner suited to those Passions of which it is the principal and the most useful Instrument. The Blood varies, and undergoes a Thousand Alterations, according to the Character and Nature of the Passion it is subservient to. How so? Because the Spirits are conveyed into it with too great a Motion, and in too great a Quantity, or too slowly, and in a small Quantity. The Blood cannot receive any Alteration but by such means; and it must be altered whenever such a Revolution happens in it. If that Revolution be occasioned by too great a Quantity of Animal Spirits, as it happens in Anger, Love, and Joy, the Parts will be very much distended, and the Blood being in a greater Fermentation will have a quicker Motion to cause a Palpitation in those, who have a Viscous Blood; because the Blood being then rarefied, distends the Parts it goes through, and has much ado to run in the Lungs, which occasions a Palpitation. On the contrary, in Sadness and Fear, the Blood does very little ferment, because the Animal Spirits are conveyed into it slowly, and in a small Quantity, and likewise into the other Parts, whereby those Parts being relaxed and unbent, are more proper to stop the Motion of the Blood, which, for want of a free Circulation, grows thick, and flying back from the Lungs into the Heart, produces a Palpitation.

It has been hitherto no easy thing to know, why that Disease is more dangerous to Men than to Women. The latter are beholden for it to the menstrual Ferment peculiar to them, which preserves the Liquidity of the Blood; whereas Men, wanting that Remedy, can hardly avoid sinking under that Disease.

I need not enlarge upon some other irregular Motions of the Heart: The Motion of that Part is sometimes slow, sometimes violent, sometimes very strong, and at other times so weak as to be hardly sensible. It is slow, when the explosive Matter gets slowly into the Substance of the Heart, and wastes slowly being coarser than it uses to be. It is quick and redoubles by a contrary Reason. It is violent, when that Matter makes a violent Explosion. It is weak, when the Explosion of that Matter is slight and small. Sometimes the Motion of the Heart is a Trembling occasioned by frequent Shakings;

kings. In such a Case, the Explosive Matter being unequally distributed into the Fibres of the Heart, occasions a stronger Contraction in some than in others, and consequently a Trembling. Or, it may be said, that the same Matter being very thin, gets easily into the Fibres of the Heart, and comes out with the same Facility; which occasions a small and frequent Pulse.

Lastly, there is another Sort of irregular Motion in the Heart, viz. an Intermittent one, when the Explosive Matter is not equally dispersed through the Mass of the Blood. Supposing, for Instance, that the Blood, which runs during Seven or Eight Beatings, has a just Quantity of that Explosive Matter, its beating will be regular; but if the next Blood is deprived of that Matter,

or has too much of it, there will be an Intermission, or more frequent Beatings will succeed one another.

The Truth of my System may be confirmed by many other Observations. I am, Sir, &c.

VALENCE,

July 1. 1711.

These Memoirs of Literature would be very imperfect, if I should lay aside every thing, that relates to Physick; and therefore I hope none of my Readers will blame me for inserting now and then some Pieces concerning that Noble and Useful Science.

V E N I C E.

Father Martin Orelli, a Barnabite, Professor of Divinity at Macerata, has printed here a Dissertation, wherein he maintains that Children ought not to be baptized in the Womb.

I have mentioned in the 1st Volume of these Memoirs, pag. 204. a Book publish'd in Italy to prove the contrary Opinion.

L O N D O N.

THE following Book is to be had at Mr. Mortjens's, and Mr. Le Cene's, in the Strand.

Theatrum Fati, sive Notitia Scriptorum de Providentia, Fortuna, & Fato. Autore Petr. Frid. Arpe. Rotterdami, Typis Pristich & Bohm. 1712. in 8vo. pagg. 101.

This Book contains an Account of all the Authors, both Ancient and Modern, who have writ concerning Providence, Chance, and Fate. Those Authors are mentioned in a Chronological Order. Mr. Arpe, not contented to take notice of the several Editions of their Books, has thought fit to insert in a few Words the most remarkable Circumstances of their Lives.

L O N D O N: Printed by J. Roberts: And Sold by A. Baldwin, near the Oxford-Arms in Warwick-Lane. (Price 2 d.)

R O M E.

THE Treatise * concerning the Point of Honour, written by the Marquis *Scipio Maffei* of Verona, is very solid and well written. It consists of Three Books. In the First, the Author confutes the wrong Notion of Honour by several Reasons: In the Second he alledges many Authorities against it; and in the Third, he shews what Inconveniencies arise from thence. This Subject was never treated before with so much Strength of Argument. The Author distinguishes with great Ability the true Notion of Honour from the wrong Notions of it. Duelling was never practised by the politest Nations: The Greeks and the Romans never decided any private Quarrel by a single Combat. That barbarous Custom owes its Original to the wild Nations of the North, which invaded the Roman Empire; and their Kings endeavoured to suppress it by wise and severe Laws. The Lombards brought into this Country that horrid Practice, condemned by the Laws of God and Men.

* I have mentioned it in the 1st Volume of these Memoirs.